



CURRICULUM VITAE

NAME:

LETHBRIDGE, Timothy, P.Eng, I.S.P., FCIPS Professor

DEGREES AND CREDENTIALS:

Degrees:

1994 PhD Computer Science, University of Ottawa, Canada, Ontario
1987 Masters of Computer Science Computer Science, University of New Brunswick, Canada, New Brunswick
1985 Bachelor of Computer Science Computer Science, University of New Brunswick, Canada, New Brunswick

Credentials:

Professional Engineer, Professional Engineers Ontario
Information Systems Professional, Canadian Information Processing Society

EMPLOYMENT HISTORY:

Academic Work Experience:

2010 – Vice-Dean, Governance, Professor, Faculty of Engineering, University of Ottawa, Canada, Ontario
2005 – Professor, Professor, Electrical Engineering and Computer Science, University of Ottawa, Canada, Ontario
2005 – 2005 Acting Vice Dean (Academic), Professor, Faculty of Engineering, University of Ottawa, Canada, Ontario
2001 – 2005 Associate Professor, Associate Professor, School of Information Technology and Engineering, University of Ottawa, Canada, Ontario
1994 – 2001 Assistant Professor, Assistant Professor, School of Information Technology and Engineering, University of Ottawa, Canada, Ontario
1991 – 1994 Part Time Professor, Lecturer, Computer Science, University of Ottawa, Canada, Ontario
1986 – 1986 Part Time Professor, Lecturer, Computer Science, University of New Brunswick, Canada, New Brunswick

Non-academic Work Experience:

1987 – 1989 Member of Scientific Staff, Bell-Northern Research (Canada)
1982 – 1985 Programmer, Government of New Brunswick, Canada, New Brunswick

HONOURS:

2016 IEEE Computer Society TCSE Outstanding Educator Award, IEEE
2015 Best paper Award - SDL Forum 2015, For: *Braun, E., Amyot, D., Lethbridge, TC. “Generating Software Documentation in Use Case Maps from Filtered Execution Traces”, United Kingdom
2010 Cascon High Impact Paper Award for one of best 14 out of 425 papers published in the first decade of Cascon, for Singer, J., Lethbridge, T.C., Vinson, N, and Anquetil, N (1997) "An Examination of Software Engineering Work Practices, IBM Cascon, Canada

- 2010 Gary Hadford Professional Achievement Award, “[to] CIPS members ... recognized by their peers for their integrity, high degree of competence, and outstanding achievements in fields related to information technology, Canadian Information Processing Society, Canada
- 2009 WCRE Award for Most Influential Paper from 10 years before, for Anquetil, N., and Lethbridge, T.C. (1999), “Experiments with Clustering as a Software Remodularization Method”, Working Conference on Reverse Engineering, pp 235-255, Working Conference on Reverse Engineering, France
- 2006 Outstanding Contribution Award, IEEE, For contributions to SE2004, IEEE, United States
- 2004 The Mather Premium, Prize given once a year for a paper published in an IEE Journal on computing. For J11. Anquetil, N., and Lethbridge, T.C. (2003), “A Comparative Study of Clustering Algorithms and Abstract Representations for Software Remodularization”, IEE Proceedings - Software, pp. 185-201, IEE, United Kingdom

SCHOLARLY and PROFESSIONAL ACTIVITIES:

Event Administration

- 2005 – General Chair, Conference on Software Engineering Education and Training
- 2013 – 2015 General Chair, Models 2015: ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems

Editorial Activities

- 2015 – 2025 Member of Editorial Board, Software and Systems Modeling (Springer)

Journal Review Activities

- 2015 – Reviewer, Applied Computing and Informatics
- 2015 – Reviewer, Science of Computer Programming
- 2015 – Reviewer, International Journal of Parallel, Emergent and Distributed Systems
- 2011 – Reviewer, Empirical Software Engineering
- 2009 – Reviewer, Software and Systems Modeling
- 2009 – Reviewer, IEEE Software
- 2009 – Reviewer, Information and Software Technology
- 2009 – Reviewer, Journal of Systems and Software
- 2013 – 2013 Reviewer, ACM Transactions on Computing Education
- 2012 – 2013 Reviewer, IEEE Transactions on Education
- 2011 – 2011 Reviewer, ACM transactions on Software Engineering and Methodology
- 2011 – 2011 Reviewer, Computer Science Education
- 2010 – 2010 Reviewer, Enterprise Information Systems
- 2010 – 2010 Reviewer, IEEE Transactions on Systems, Man and Cybernetics
- 2009 – 2013 Reviewer, Communications of the ACM
- 2009 – 2013 Reviewer, Journal of Software: Evolution and Process
- 2009 – 2012 Reviewer, IEEE Computer
- 2009 – 2012 Reviewer, IET Software
- 2009 – 2012 Reviewer, Software Practice and Experience
- 2009 – 2012 Reviewer, IEEE Transactions on Software Engineering

Conference Review Activities

- 2009 – Reviewer, Conference on Software Engineering and Training (CSEE&T)
- 2009 – Reviewer, Models Education Symposium
- 2009 – Reviewer, Cascon
- 2011 – 2011 Reviewer, ICSE Education Track
- 2009 – 2014 Reviewer, ACM/IEEE Conference on Model-Driven Engineering Languages and Systems (Models)
- 2009 – 2010 Reviewer, International Conference on Program Comprehension
- 2009 – 2009 Reviewer, Software Language Engineering

Organizational Review Activities

- 2015 – 2015 University of Manitoba (Academic), External Evaluator, Evaluated Graduate program. Included site visit

- 2013 – 2013 University of Ontario Institute of Technology, Ontario, Canada, Academic External Evaluator, Evaluated Computer Science undergraduate program, according to provincial requirements. Included site visit
- 2012 – 2012 Seneca College for Applied Arts and Technology, Ontario, Canada, Academic External Evaluator, Reviewed and evaluated Software Development academic program
- 2005 – 2015 Canadian Information Processing Society (Not for Profit), Accreditation Visitor, Computer Science accreditation visits to St Mary's University, York University, University of Waterloo, Concordia University, Dalhousie University, Acadia University, University of Saskatchewan, University of Manitoba, Queens University

MEMBERSHIPS

Committee Memberships

- 2018 – Committee Member, *Vice Chair, Computer Science Accreditation Council*, Canadian Information Processing Society
- 2018 – Committee Member, *Board Member, CIPS National Board*, Canadian Information Processing Society
- 2018 – Committee Member, *Board of Directors*, CIPS Ontario
- 2008 – 2014 Chair, *Computer Science Accreditation Council*, Canadian Information Processing Society, Canada
- 1989 – 1991 Committee Member, *Board of Governors*, University of Ottawa, Canada, Ontario
- 1985 – 1987 Committee Member, *Board of Governors*, University of New Brunswick, Canada, New Brunswick
- 1982 – 1986 Committee Member, *Senate*, University of New Brunswick, Canada, New Brunswick

Other Memberships

- 2008 – 2025 P. Eng, Professional Engineers Ontario, Canada
- 2006 – 2025 Certified Member, Canadian Information Processing Society, Canada
- 1996 – 2025 Senior Member, ACM, United States
- 1989 – 2024 Senior Member, IEEE, United States

SUPERVISIONS:

Summary:

Completed

Principal Supervisor	11 Doctorate 11 Master's Thesis 3 Master's non-Thesis
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Co-Supervisor	36 Bachelor's 4 Doctorate 6 Master's Thesis
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In Progress

Principal Supervisor	4 Doctorate
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Supervision detail:

Emmanuel Ayeleso (Doctorate), Computer Science *Modeling for Big Data*, Principal Supervisor, January 2019 -

Abdulaziz Algablan (Doctorate), Computer Science *Product Lines in Umple*, Principal Supervisor, September 2016 - December 2020

Aliaa Alghamdi (Doctorate), PhD. in E-Business *Enterprise Architecture in Higher Education*, Principal Supervisor, January 2016 -

Amid Zakariapour (Master's Thesis), Computer Science *Real-time Distributed Modeling in Umple*, Co-Supervisor, September 2015 - August 2017

Curtis Meerkerk (Bachelor's), UCOSP *Association Class Semantics (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Adam Kereliuk (Bachelor's), UCOSP *Improvements to UmpleOnline (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Matthew Fritze (Bachelor's), UCOSP *Improvements to Diagram Drawing in Umple (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Aymen Ben Rkhis (Bachelor's), UCOSP *Code analysis improvements in Umple (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Vivian Xinxin Kou (Bachelor's), UCOSP *Filtering to allow specification of submodels (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

Warren Marivel (Bachelor's), UCOSP *SCXML: Generation from Umple and importing to Umple (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

Kevin Brightwell (Bachelor's), UCOSP *Automatic conversion of AtlanZoo repositories to Umple (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

John Zweip (Bachelor's), UCOSP *Analysing data for umplification (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

Robert Weisman (Doctorate), PhD in E-Business *A Leadership Approach to Successful Digital Transformation Using Enterprise Architecture*, Principal Supervisor, September 2014 - December 2019

Nabil Maadarani (Bachelor's), UCOSP *Batch-Umplifying Open Source Code (UCOSP Project)*, Co-Supervisor, September 2014 - April 2015

Mark Galloway (Bachelor's), UCOSP *Improving Papyrus integration for Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Karin Ng (Bachelor's), UCOSP *Improving GraphViz generation of Umple diagrams, including Entity-Relationship diagrams (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Alexi Turcotte (Bachelor's), UCOSP *Adding association subsetting and specialization to Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Ellen Arteca (Bachelor's), UCOSP *Adding compositions to Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Alexander Ringeri (Bachelor's), UCOSP *Improving state machine semantics in Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Chan Chun Kit (Bachelor's), Facebook Open Academy *Improvements to Umple's Ecore Generator (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Charles Wang (Bachelor's), Facebook Open Academy *Improvements to UmpleOnline such as saving state and keyboard shortcuts (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Eric Telmer (Bachelor's), Facebook Open Academy *Implementing Deep History and History in Umple State Machine Code Generation (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Adriaan Cody Schuffelen (Bachelor's), Facebook Open Academy *Generating USE from Umple (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Tyler McConnell (Bachelor's), Facebook Open Academy *Fixing various issues in Umple (UCOSP Project)*, Co-Supervisor, January 2014 - April 2014

Sultan Eid Almagthawi (Doctorate), Computer Science *Model-Driven Testing in Umple*, Principal Supervisor, September 2013 - March 2020

Adesina Opeyemi (Doctorate), Computer Science *Integrating Formal Methods With Model-Driven Engineering*, Co-Supervisor, September 2013 - July 2017

Fiodar Kazhamiaka (Bachelor's), UCOSP *Improving code generation in Umple, including passing through comments to generated code (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Tianyuan Chu (Bachelor's), UCOSP *Ecore generator in Umple (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Marc Antoine Gosselin-Lavigne (Bachelor's), UCOSP *Solving problems with Umple semantic analysis and code generation (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Kenan Kigunda (Bachelor's), UCOSP *Dropbox Integration into UmpleOnline (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Jean-Christophe Charbonneau (Bachelor's), UCOSP *Improvements to UmpleOnline such as allowing optional display of methods and attributes (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Abdelzad, Vahdat (Doctorate), Electrical Engineering *Promoting Traits into Model-Driven Development*, Principal Supervisor, May 2013 - May 2017

Geoffrey Guest (Bachelor's), UCOSP *Improvements to the Umple Compiler*, Co-Supervisor, January 2013 - April 2013

Robin Jastrzebski (Bachelor's), UCOSP *Improving association semantics and adding keys to umple (UCOSP Project)*, Co-Supervisor, January 2013 - April 2013

Quinlan Jung (Bachelor's), UCOSP *Constraints in Umple (UCOSP Project)*, Co-Supervisor, January 2013 - April 2013

Blakely Quebec-Desloges (Bachelor's), UCOSP *Detecting naming conflicts when generating code (UCOSP Project)*, Co-Supervisor, January 2013 - April 2013

Christopher Hogan (Bachelor's), UCOSP *Adding constraints to Umple (UCOSP Project)*, Co-Supervisor, September 2012 - December 2012

Russell Staughton (Bachelor's), UCOSP *Papyrus export for Umple (UCOSP Project)*, Co-Supervisor, September 2012 - December 2012

Thomas Morrison (Bachelor's), UCOSP *Sorted Associations in Umple (UCOSP Project)*, Co-Supervisor, September 2012 - December 2012

Mahmoud Hussein Orabi (Doctorate), Computer Science *Facilitating the Representation of Composite Structure, Active objects, Code Generation, and Software Component Descriptions in the Umple Model-Oriented Programming Language*, Principal Supervisor, January 2012 - July 2017

Ahmed Orabi (Doctorate), Computer Science *Multi-Modal Technology for User Interface Analysis including Mental State Detection and Eye Tracking Analysis*, Principal Supervisor, January 2012 - July 2017

Aliaa Alghamdi (Master's Thesis), Systems Science *Extensions to Umple for Interconnected State Machines*, Co-Supervisor, January 2012 - January 2015

Jordan Johns (Bachelor's), UCOSP *Ensuring comments pass through to generated code, and enabling the declaration of abstract classes in Umple (UCOSP project)*, Co-Supervisor, January 2012 - April 2012

Sonya Adams (Bachelor's), UCOSP *Adding immutability to classes attributes and associations in Umple (UCOSP Project)*, Co-Supervisor, January 2012 - April 2012

Song Bae Choi (Bachelor's), UCOSP *Resolving issues related to synchronizing text and diagrams in UmpleOnline (UCOSP Project)*, Co-Supervisor, January 2012 - April 2012

Joel Hobson (Bachelor's), UCOSP *Developer debug capabilities for Umple (UCOSP Project)*, Co-Supervisor, September 2011 - December 2011

Joshua Horacek (Bachelor's), UCOSP *Improving feedback on syntax and semantic errors in Umple (UCOSP Project)*, Co-Supervisor, September 2011 - December 2011

Miguel Garzon (Doctorate), Computer Science *Umplification: Incremental reverse engineering from source code to model-oriented programs in Umple*, Principal Supervisor, September 2010 - July 2015

Sultan Eid Almagthawi (Master's Thesis), Computer Science *Generation of C++ From the Umple Model-Oriented Programming Technology*, Principal Supervisor, September 2010 - September 2013

Hamoud Aljamaan (Doctorate), Computer Science *Model-Oriented Tracing Language: Producing Execution Traces from Tracepoints Injected into Code Generated from UML Models*, Principal Supervisor, January 2010 - September 2015

Jenya Levin (Master's Thesis), Computer Science *System Generation for Time and Activity Management Product Lines*, Principal Supervisor, September 2008 - December 2009

Julian Solano (Master's Thesis), Systems Science *Exploring How Model Oriented Programming Can Be Extended to the User Interface Level*, Principal Supervisor, January 2008 - March 2010

Omar Bahy Badreddin (Doctorate), Computer Science *A Manifestation of Model-Code Duality: Facilitating the Representation of State Machines in the Umple Model-Oriented Programming Language*, Principal Supervisor, December 2007 - March 2012

Dusan Brestovansky (Master's Thesis), Computer Science *Exploring Textual Modeling Using the Umple Language*, Principal Supervisor, July 2007 - September 2008

Andrew Forward (Doctorate), Computer Science *The Convergence of Modeling and Programming: Facilitating the Representation of Attributes and Associations in the Umple Model-Oriented Programming Language*, Principal Supervisor, September 2006 - October 2010

Ali Fatollahi (Doctorate), Computer Science *An Abstract Meta-Model for Model Driven Development of Web Applications Targeting Multiple Platforms*, Co-Supervisor, May 2006 - August 2012

Mehrdad Nojournian (Master's Thesis), Computer Science *Document Engineering of Complex Software Specifications*, Principal Supervisor, October 2005 - June 2007

Hanna Farah (Master's Thesis), Electrical Engineering *Applying Cognitive Patterns to Support Software Tool Development*, Principal Supervisor, September 2005 - December 2006

Max Nozin (Master's Thesis), Computer Science *A Privacy Framework to Provide Users with Control, Accuracy and Audit*, Co-Supervisor, April 2004 - July 2005

Bo Zhao (Master's Thesis), Systems Science *An Enriched Web Services Client Architecture for Management and Sharing of Context*, Co-Supervisor, January 2004 - May 2005

Rana Khartabil (Master's Thesis), Computer Science *User-Centered Design and Evaluation of a Dynamic Biochemical Pathway Visualization Tool*, Co-Supervisor, January 2003 - April 2005

Eric Fu (Master's Thesis), Computer Science *Exploration and Visualization of Large Execution Traces*, Principal Supervisor, January 2003 - April 2005

Edna Braun (Doctorate), Computer Science *Reverse engineering behavioral models by filtering out utilities from execution traces*, Co-Supervisor, September 2002 - September 2013

Xuyen On (Master's Thesis), Computer Science *Interactive Web Charts for Visualizing Large Data Sets*, Co-Supervisor, September 2002 - March 2005

Andrew Forward (Master's Thesis), Computer Science *Software Documentation: Building and Maintaining Artefacts of Communication*, Principal Supervisor, September 2001 - October 2002

Adam Murray (Doctorate), Computer Science *Discourse Structure of Software Explanation: Snapshot Theory, Cognitive Patterns and Grounded Theory Methods*, Principal Supervisor, September 2000 - September 2006

Abdelwahab Hamou-Lhadj (Doctorate), Computer Science *Techniques to Simplify the Analysis of Execution Traces for Program Comprehension*, Principal Supervisor, January 2000 - October 2005

Huixiang Liu (Master's Thesis), Computer Science *Intelligent Search Techniques for Large Software Systems*, Principal Supervisor, January 2000 - November 2001

Iyad Zayour (Doctorate), Computer Science *Reverse Engineering: A Cognitive Approach, a Case Study and a Tool*, Principal Supervisor, January 1999 - March 2002

LiQun Wang (Master's Thesis), Systems Science *Animated Exploring of Huge Software Systems*, Principal Supervisor, September 1998 - January 2003

Mohammad Mtairek (Master's non-Thesis), Computer Science *Object-Oriented Abstractions of Non Object-Oriented Software*, Principal Supervisor, September 1998 - April 2002

Francisco Herrera (Master's Thesis), Computer Science *A Usability Study of the "TkSee" Software Exploration Tool*, Principal Supervisor, September 1997 - September 1999

Lisa Borgia (Master's non-Thesis), Computer Science *Performance Comparison of Memory-Mapped C++ Objects with a Commercial Database*, Principal Supervisor, September 1996 - December 1998

Priya Ramalingom (Master's non-Thesis), Computer Science *Adding A Generic Debugger to a Source Code Exploration Environment*, Principal Supervisor, September 1995 - December 1997

Jelber Sayyad-Shirabad (Doctorate), Computer Science *Learning Usage Patterns to Assist Source Code Browsing*, Co-Supervisor, September 1994 - March 2003

COURSES:

Undergraduate Courses

CS1013 Computer Science Concepts in Fortran University of New Brunswick, New Brunswick:
May, 1986 - June, 1986

CS2083 Interactive Programming in APL University of New Brunswick, New Brunswick:
June, 1986 - August, 1986

CSI2110 Data Structures:
January, 1996 - April, 1996

CSI2377 Smalltalk Programming Lab University of Ottawa, Ontario:
January, 1990 - April, 1990

CSI4111 Software Evolution and Re-Engineering University of Ottawa, Ontario:
January, 1993 - December, 1996

ELG/SEG/CSI2911 Professional Practice in Electrical Engineering and Computer Science University of Ottawa, Ontario:

January, 2010 - April, 2014

SEG2105 Introduction to Software Engineering University of Ottawa, Ontario:
January, 1991 - December, 2014

SEG3125 User Interface Analysis and Design University of Ottawa, Ontario:
May, 1995 - July, 2001

SEG4110 Advanced Software Design and Reengineering University of Ottawa, Ontario:
May, 1994 - December, 2015

SEG4910/SEG4911 Capstone Project in Software Engineering University of Ottawa, Ontario:
September, 2000 - April, 2020

Graduate Courses

CSI5122 Software Usability University of Ottawa, Ontario:
January, 1999 - April, 2019

LIFETIME FUNDING:

- Total amount of funding received.....	\$2,566,348.00
As Principal Investigator.....	\$2,100,998.00

EXTERNAL RESEARCH FUNDING:

Date(s)	Source	Type	Investigator	Amount
2016/5 - 2018/5	Mitacs and KDM Analytics <u>Title:</u> Mitacs Accelerate: Reconstructing DoDAF (Department of Defense Architecture Framework) compliant high level views from information systems <u>Program:</u> Mitacs Accelerate	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principal Investigator <u>Co-applicant:</u> Alvine Boaye-Belle	Funding Total: \$75,000
2016/4 - 2021/3	Natural Sciences and Engineering Research Council of Canada (NSERC) <u>Title:</u> Discovery Grant <u>Program:</u> Discovery Grants	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principal Investigator	Funding Total: \$130,000
2011/9 - 2016/9	Ontario Research Fund, General Motors and IBM <u>Title:</u> ORF Grant - Model-Based Software Engineering <u>Program:</u> Model-Based Software Engineering	<u>Type:</u> Grant	<u>My Role:</u> Co-investigator <u>Principal Investigator:</u> Joanne Atlee	Funding Total: \$381,000
2011/4 - 2016/3	NSERC <u>Title:</u> Discovery Grant <u>Program:</u> Discovery Grants	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principal Investigator	Funding Total: \$145,000
2009/5 - 2012/4	Ericsson and IBM and NSERC <u>Title:</u> CRD - Tracing in software engineering <u>Program:</u> CRD	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigator:</u> Michel Dagenais	Funding Total: \$79,350
2009/5 - 2009/8	Social Sciences and Humanities Research Council of Canada (SSHRC) <u>Title:</u> Factors influencing high school and university students' educational and career decisions in the field of information technology <u>Program:</u>	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator	Funding Total: \$5,000

	Challenges and Opportunities of a Knowledge-based Economy			
2007/1 - 2010/12	IBM Canada Ltd <u>Title:</u> CAS Fellowship <u>Program:</u> CAS Fellowships	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principal Investigator	Funding Total: \$120,000
2006/4 - 2011/3	Natural Sciences and Engineering Research Council of Canada (NSERC) <u>Title:</u> Improving the preciseness and usability of UML <u>Program:</u> Discovery Grants	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principal Investigator	Funding Total: \$139,000
2004/4 - 2006/3	IBM and NSERC <u>Title:</u> CSER: Applying Cognitive Patterns to Support Software Tool Development <u>Program:</u> CRD	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principal Investigator	Funding Total: \$100,000
2003/4 - 2004/9	QNX <u>Title:</u> Analyzing Traces with SEAT <u>Program:</u> Research Grant	<u>Type:</u> Grant	<u>My Role:</u> Principal Investigator	Funding Total: \$42,000
2002/4 - 2006/3	Natural Sciences and Engineering Research Council of Canada (NSERC) <u>Title:</u> Discovery Grant: Visualization of Software <u>Program:</u> Discovery Grants	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principal Investigator	Funding Total: \$118,000
1999/4 - 2002/3	Mitel and NSERC <u>Title:</u> Consortium for Software Engineering Research <u>Program:</u> Consortium for Software Engineering Research	<u>Type:</u> Grant	<u>My Role:</u> Principal Investigator	Funding Total: \$540,000
1998/4 - 2002/3	Natural Sciences and Engineering Research Council of Canada (NSERC)	<u>Type:</u> Grant	<u>My Role:</u> Principal Investigator	Funding Total: \$46,200

	<p><u>Title:</u> Discovery Grant: Analysis - level patterns in object-oriented software</p> <p><u>Program:</u> Discovery Grants</p>	<p><u>Purpose:</u> Operating</p>		
1996/4 - 1999/3	<p>Mitel and NSERC</p> <p><u>Title:</u> Consortium for Software Engineering Research</p> <p><u>Program:</u> Consortium for Software Engineering Research</p>	<p><u>Type:</u> Grant</p>	<p><u>My Role:</u> Principal Investigator</p>	<p>Funding Total: \$524,298</p>
1995/5 - 1996/4	<p>MITEL Corporation (Kanata, ON)</p> <p><u>Title:</u> Knowledge Based reverse Engineering</p> <p><u>Program:</u> Grant</p>	<p><u>Type:</u> Contract</p>	<p><u>My Role:</u> Principal Investigator</p>	<p>Funding Total: \$60,000</p>

INTERNAL RESEARCH FUNDING:

Date(s)	Source	Type	Investigator	Amount
2018/7 - 2020/6	<p>University of Ottawa</p> <p><u>Title:</u> Internal Stipend</p> <p><u>Program:</u> Research Stipend 12K per year</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> Principal Investigator</p>	<p>Funding Total: \$24,000</p>
2014/7 - 2017/6	<p>University of Ottawa</p> <p><u>Title:</u> Internal Stipend</p> <p><u>Program:</u> Research Stipend 7.5K per year</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> Principal Investigator</p>	<p>Funding Total: \$22,500</p>
2008/7 - 2014/6	<p>University of Ottawa</p> <p><u>Title:</u> Internal Stipend</p> <p><u>Program:</u> Research Stipend 2.5K per year</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> Principal Investigator</p>	<p>Funding Total: \$15,000</p>

CONTRIBUTIONS:

Life-time summary count according to the following categories:

Books Authored.....3

Refereed Journal Articles	26
Conference Publications.....	132
Refereed Chapters In Books.....	10
Reports	4
Intellectual Properties.....	1
Other Contributions.....	8

PUBLICATIONS:Books Authored

3. Thompson, JB, Edwards, HM, Lethbridge, TC. (2004, June). *Post-summit Proceedings: International Summit on Software Engineering Education, Co-located with International Conference on Software Engineering, May 2002, Orlando, USA*: University of Sunderland Press.
2. Lethbridge, T., Laganière, R. (2004, January). *Object-Oriented Software Engineering: Practical Software Development using UML and Java* (2 ed.). London, UK: McGraw Hill. doi:<http://www.site.uottawa.ca/school/research/lloseng>
1. Lethbridge, T, Laganière, R. (2001, June). *Object-Oriented Software Engineering: Practical Software Development using UML and Java* (1 ed.). London, UK: Mcgraw-Hill.

Refereed Chapters In Books

10. Lethbridge, TC. (2015, October). Usable Software Tools: Winding Paths of Involvement in Cascon and CAS. In Litoiu, M., Lyons, K., Müller, H., Ng, J (Eds.), *CAS and CASCON Honouring 25 Years of IBM Research and Innovation* (pp.). Toronto, Canada: IBM. doi:<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.700.3478&rep=rep1&type=pdf#page=88>
9. Lethbridge, Timothy C, Lyon, Steve, Perry, Peter. (2008, June). The Management of University - Industry Collaborations Involving Empirical Studies of Software Engineering. In Shull, F., Singer, J, and Sjøberg, D (Eds.), *Guide to Advanced Empirical Software Engineering* (pp. 257-284). Springer London. doi:10.1007/978-1-84800-044-5_10
8. Singer, J., Sim. S., and Lethbridge, T.C. (2008, June). Software Engineering Data Collection for Field Studies. In Shull, F., Singer, J, and Sjøberg, D (Eds.), *Guide to Advanced Empirical Software Engineering* (pp. 9-34). Springer London. doi:10.1007/978-1-84800-044-5_1
7. Shirabad, Jelber Sayyad, Lethbridge, Timothy C, Matwin, Stan. (2007, June). Discovering Relevance Relations in Software Systems Using Data Mining Techniques. In Zhang, D., Tsai, J (Eds.), *Advances in machine learning applications in software engineering* (pp. 168-207). IGI Global. doi:10.4018/978-1-59140-941-1.ch008
6. Atlee, Joanne M, LeBlanc Jr, Richard J, Lethbridge, Timothy C, Sobel, Ann, Thompson, J Barrie. (2006, June). Reflections on Software Engineering 2004, the ACM/IEEE-CS Guidelines for Undergraduate Programs in Software Engineering. *Software Engineering Education in the Modern Age* (Vol. LNCS 4309) (pp. 11-27). Springer Berlin Heidelberg. doi:10.1007/11949374_2
5. Giese, Holger, Roques, Pascal, Lethbridge, Timothy C. (2006, June). Summary of the Educator's Symposium. *Satellite Events at the MoDELS 2005 Conference* (Vol. LNCS 3844) (pp. 302-305). Springer Berlin Heidelberg. doi:10.1007/11663430_3
4. Lethbridge, Timothy, Singer, Janice. (2002, June). Studies of the Work Practices of Software Engineers. In Erdogmus, H., Tanir, O (Eds.), *Advances in Software Engineering: Comprehension, Evaluation and Evolution* (pp. 51-72). Springer New York. doi:10.1007/978-0-387-21599-0_3
3. Lethbridge, Timothy C, Anquetil, Nicolas. (2002, June). Evaluation of Approaches to Clustering for Program Comprehension and Remodularization. In Erdogmus, H., Tanir, O (Eds.), *Advances in Software Engineering: Comprehension, Evaluation and Evolution* (pp. 137-157). Springer New York. doi:10.1007/978-0-387-21599-0_7
2. Lethbridge, T.C. and Herrera, F. (2002, June). Assessing the Usefulness of the TkSee Software Exploration Tool: A Case Study. In Erdogmus, H., Tanir, O (Eds.), *Advances in Software Engineering: Comprehension, Evaluation and Evolution* (pp. 73-93). Springer New York. doi:978-0-387-21599-0_4

1. Lethbridge, T.C. and Ware, C. (1990, June). Animation Using Behaviour Functions. In Ichikawa et al (Eds.), *Visual Languages and Applications* (pp. 237-252). Boston: Springer, New York. doi:10.1007/978-1-4613-0569-9_13

Refereed Journal Articles

26. *Husseini Orabi M, *Husseini Orabi M, Lethbridge TC. (2020, January). Umple-TL: A Model-Oriented, Dependency-Free Text Emission Tool. *Communications in Computer and Information Science*, 1161, 127-155. doi:10.1007/978-3-030-37873-8_6
Extended version of Modelsward Article
25. Agner, L.T.W., Lethbridge, T.C., and Soares, I.W. (2019, September). Student experience with software modeling tools. *Software & Systems Modeling*, 18(5), 3025-3047. doi:10.1007/s10270-018-00709-6
24. *Husseini Orabi M., *Husseini Orabi A., Lethbridge T.C. (2019, February). A Textual Notation for Modeling and Generating Code for Composite Structure. *Communications in Computer and Information Science*, 991, 355-379. doi:10.1007/978-3-030-11030-7_16
Extended version of Modelsward Article
23. *Adesina, O, Lethbridge, T.C., Somé, S., *Abdelzad, V., and *Boaye Belle, A. (2018, December). Improving Formal Analysis of State Machines with Particular Emphasis on And-Cross Transitions. *Computer Languages, Systems and Structures*, 54. doi:10.1016/j.cl.2017.12.001
22. *Boaye Belle, A, Lethbridge, T.C., *Garzón, M., *Adesina, O. (2018, April). Design and implementation of distributed expert systems: on a control strategy to manage the execution flow of rule activation. *Expert Systems with Applications*, 96, 129-148. doi:10.1016/j.eswa.2017.11.033
21. *Abdelzad V., Lethbridge T.C. (2015, October). Promoting Traits into Model-Driven Development. *Systems and Software Modeling*. doi:http://rdcu.be/mSAC
20. *Forward, A, *Badreddin, O, Lethbridge, TC, *Solano, J. (2012, June). Model-driven rapid prototyping with Umple. *Software: Practice and Experience*, 42(7), 781-797. doi:http://dx.doi.org/10.1002/spe.1155
19. *Fatolahi, A, Somé, SS, Lethbridge, TC. (2012, June). A Meta-Model for Model-Driven Web Development. *International Journal of Software and Informatics*, 6(2), 125-162.
18. *Nojournian, M, Lethbridge, TC. (2011, June). Reengineering PDF-based documents targeting complex software specifications. *Int. J Knowledge and Web Intelligence*, 2(4), 292-319. doi:10.1504/IJKWI.2011.045165
17. *Fatolahi, A, Somé, S, Lethbridge, TC. (2011, June). Model-driven web development for multiple platforms. *Journal of Web Engineering*, 10(2), 109-152. doi:https://www.riverpublishers.com/journal/journal_articles/RP_Journal_1540-9589_1022.pdf
16. *Hamou-Lhadj, A, Lethbridge, TC. (2010, June). A metamodel for the compact but lossless exchange of execution traces. *Software & Systems Modeling*, 11(1), 77-98. doi:10.1007/s10270-010-0180-x
15. *Hamou-Lhadj, A, Lethbridge, TC. (2010, June). Understanding the complexity embedded in large routine call traces with a focus on program comprehension tasks. *IET software*, 4(2), 161-177. doi:10.1049/iet-sen.2009.0031
14. Lethbridge, TC, LeBlanc Jr, RJ, Kelley-Sobel, AE, Hilburn, T B, Diaz-Herrera, TL. (2006, June). SE2004: Recommendations for undergraduate software engineering curricula. *Software, IEEE*, 23(6), 19-25. doi:10.1109/MS.2006.171
13. Lethbridge, TC, Sim, SE, Singer, J. (2005, June). Studying software engineers: Data collection techniques for software field studies. *Empirical software engineering*, 10(3), 311-341. doi:10.1007/s10664-005-1290-x
12. Lethbridge, TC, Singer, J, *Forward, A. (2003, June). How software engineers use documentation: The state of the practice. *Software, IEEE*, 20(6), 35-39. doi:10.1109/MS.2003.1241364
11. *Anquetil, N, Lethbridge, TC. (2003, June). Comparative study of clustering algorithms and abstract representations for software remodularisation. *IEE Proceedings-Software*, 150(3), 185-201. doi:10.1049/ip-sen:20030581
10. *Liu, H, Lethbridge, TC. (2002, June). Intelligent search methods for software maintenance. *Information Systems Frontiers*, 4(4), 409-423. doi:10.1023/A:10208398
9. Lethbridge, TC. (2001, June). Mixing Software Engineering Research and Development-What Needs Ethical Review and What Does Not?. *Empirical Software Engineering*, 6(4), 319-321. doi:10.1023/A:10119746

8. Lethbridge, TC. (2000, June). What knowledge is important to a software professional?. *Computer*, 33(5), 44-50. doi:10.1109/2.841783
7. Lethbridge, TC. (2000, June). Priorities for the education and training of software engineers. *Journal of Systems and Software*, 53(1), 53-71. doi:10.1016/S0164-1212(00)00009-1
6. Lethbridge, TC. (2000, June). Evaluating a domain-specialist-oriented knowledge management system. *International Journal of Human-Computer Studies*, 52(6), 961-990. doi:10.1006/ijhc.1999.0380
5. *Anquetil, N, Lethbridge, TC. (1999, June). Recovering software architecture from the names of source files. *Journal of Software Maintenance*, 11(3), 201-221. doi:10.1002/(SICI)1096-908X(199905/06)11:33.0.CO;2-1
4. Lethbridge, TC. (1998, June). The relevance of software education: A survey and some recommendations. *Annals of Software Engineering*, 6(1-4), 91-110. doi:10.1023/A:10189177
3. Lethbridge, TC. (1998, June). Metrics for concept-oriented knowledge bases. *International Journal of Software Engineering and Knowledge Engineering*, 8(02), 161-188. doi:10.1142/S021819409800011X
2. Skuce, D, Lethbridge, TC. (1995, June). CODE4: A unified system for managing conceptual knowledge. *International Journal of Human-Computer Studies*, 42(4), 413-451. doi:10.1006/ijhc.1995.1019
1. Lethbridge, TC, Ware, C. (1989, June). A simple heuristically-based method for expressive stimulus-response animation. *Computers & Graphics*, 13(3), 297-303. doi:10.1016/0097-8493(89)90077-0

Conference Publications

132. Lethbridge, T, and *Alghamdi, A. (2019, November). Framework, Model and Tool Use in Higher Education Enterprise Architecture: An International Survey. In *Cascon* (p. 138-147) ACM.
131. Lethbridge, TC. (2019, September). UmpleOnline as a Testbed for Modeling Empirical Studies: A Position Paper. In *Fourth International Workshop on Human Factors in Modeling (HuFaMo) 2019* (p. 412-413) IEEE. doi:10.1109/MODELS-C.2019.00064
130. *Boaye Belle, A., Lethbridge, T.C., Kpodjedo, S., Adesina, O., Garzón, M. (2019, September). A novel approach to measure confidence and uncertainty in assurance cases. In *9th International Model-Driven Requirements Engineering Workshop (MoDRe) 2019* IEEE. (In Press)
129. Lethbridge, TC. (2019, June). Capstone Software Engineering Students Can Develop a High-Quality Complex System: A Case Study With Umple. In *Canadian Engineering Education Association Conference*. doi:https://ojs.library.queensu.ca/index.php/PCEEA/article/view/13730
128. *Husseini-Orabi, M., *Husseini-Orabi, A., Lethbridge, TC. (2019, January). Umple as a Template Language (Umple-TL). In *7th International Conference on Model-Driven Engineering and Software Development, MODELSWARD INSTCC*. doi:10.5220/0007382000980106
127. *Adesina, O., Lethbridge, T.C., Somé, S. (2019, September). Optimizing Hierarchical, Concurrent State Machines in Umple for Model Checking. In *16th Workshop on Model Driven Engineering, Verification and Validation (MoDeVVA) 2019* (p. 523-531) IEEE. doi:10.1109/MODELS-C.2019.00082
126. *Husseini-Orabi, M., *Husseini-Orabi, A., and Lethbridge, T.C. (2018, January). Component-Based Modeling in Umple. In *Modelsward 2018* (p. 247-255) SCITEPRESS. doi:https://www.researchgate.net/profile/Timothy_Lethbridge/publication/322879081_Component-based_Modeling_in_Umple/links/5a7b01550f7e9b41dbd725f2/Component-based-Modeling-in-Umple.pdf
125. *Husseini-Orabi, M., *Husseini-Orabi, A., and Lethbridge, T.C. (2018, January). Concurrent Programming using Umple. In *Modelsward 2018* (p. 575-585) SCITEPRESS. doi:https://www.researchgate.net/profile/Timothy_Lethbridge/publication/322870960_Concurrent_Programming_using_Umple/links/5a7b01c0aca2722e4df60555/Concurrent-Programming-using-Umple.pdf
124. Sturm, A., Lethbridge, TC. (2018, May 15). Poster: Are Our Students Engaged in Their Studies? Professional Engagement vs. Study Engagement. In *2018 IEEE/ACM 40th International Conference on Software Engineering: Companion (ICSE-Companion)* (p. 149-150) IEEE. doi:https://ieeexplore.ieee.org/abstract/document/8449474
123. Lethbridge, T.C. and *Algablan, A. (2018, October). Applying Umple to the Rover Control Challenge Problem: A Case Study in Model-Driven Engineering. In *MDETools, Models 2018* (p. 386-395) CEUR. doi:http://ceur-ws.org/Vol-2245/mdetools_paper_9.pdf

122. Lethbridge, T.C., *Algablan, A. (2018, October 15). Using umple to synergistically process features, variants, UML models and classic code. In *International Symposium on Leveraging Applications of Formal Methods* (p. 69-88) Springer. doi:10.1007/978-3-030-03418-4_5
121. Badreddin, O., Khandoker, R., Forward, A., Masmali, O., Lethbridge, T.C. (2018, October 15). A decade of software design and modeling: A survey to uncover trends of the practice. In *Proceedings of the 21th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems* (p. 245-255). doi:10.1145/3239372.3239389
120. Lethbridge, T.C., Peyton, L., Amyot, D., Somé, S. (2017, October). The University of Ottawa Undergraduate Software Engineering Program: Leading and Innovative. In *CSEE&T 2017* (p. 5-6) IEEE. doi:10.1109/CSEET.2017.12
119. *Agner, Luciane T. W. and Lethbridge, T.C. (2017, September). A Survey of Tool Use in Modeling Education. In *Models 2017* (p. 303-322) IEEE Computer Society. doi:10.1109/MODELS.2017.1
118. Lima, E., *Resende, A., Lethbridge, TC. (2016, August 21). The Uncomfortable Discrepancies of Software Metric Thresholds and Reference Values in Literature. In *ICSEA 2016, The Eleventh International Conference on Software Engineering Advances* (p. 1-9). doi:http://www.thinkmind.org/index.php?view=article&articleid=icsea_2016_1_10_10013
117. Badreddin, O., *Abdelzad, V., Lethbridge, TC, Elaasar, M. (2016, June 15). fSysML: Foundational Executable SysML for Cyber-Physical System Modeling. In *GEMOC workshop*. doi:http://ceur-ws.org/Vol-1731/paper_3.pdf
116. *Husseini Orabi, M., *Husseini Orabi, A., Lethbridge, TC. (2016, January). Umple as a component-based language for the development of real-time and embedded applications. In *Modelsward 2016* (p. 282-291) Scitepress. doi:https://ieeexplore.ieee.org/abstract/document/7954371
115. George, A., Lethbridge, TC., Peyton, L. (2016, June). Graduate Attribute Assessment In Software Engineering Program At University Of Ottawa – Continual Improvement Process. In *2016 Canadian Engineering Education Conference*. doi:https://ojs.library.queensu.ca/index.php/PCEEA/article/view/6484/6032
114. *Husseini Orabi, A, *Husseini Orabi, M, Lethbridge, TC. (2016, June 15). Psychophysiological observing and analysis tool for user experience. In *Proceedings of the 1st International Workshop on Emotion Awareness in Software Engineering* (p. 22-25). doi:10.1145/2897000.2897004
113. Lethbridge, TC, *Abdelzad, V, *Husseini Orabi, M, *Husseini Orabi, A, *Adesina, O. (2016, June 15). Merging modeling and programming using Umple. In *International Symposium on Leveraging Applications of Formal Methods* (p. 187-197). doi:10.1007/978-3-319-47169-3_14
112. *Adesina, O, Lethbridge, TC, Somé, S. (2016, June 15). A fully automated approach to discovering non-determinism in state machine diagrams. In *10th International Conference on the Quality of Information and Communications Technology, Portugal*. doi:10.1109/QUATIC.2016.021
111. *Abdelzad, V, Lethbridge, TC, Hosseini, M. (2016, June 15). The role of semiotic engineering in software engineering. In *Proceedings of the 5th International Workshop on Theory-Oriented Software Engineering* (p. 15-21). doi:10.1145/2897134.2897136
110. *Adesina O, Somé, S, Lethbridge TC. (2016, October). Modeling State Diagrams with And-Cross Transitions. In *MoDeVVA 2016, Models 2016* CEUR 1713. doi:http://ceur-ws.org/Vol-1713/MoDeVVA_2016_paper_6.pdf
109. *Aljamaan, H, Lethbridge TC. (2015, November 3). MOTL: a Textual Language for Trace Specification of State Machines and Associations. In *Proceedings of 25th Annual International Conference on Computer Science and Software Engineering (Cascon)* (p. 101-110) IBM and ACM. doi:https://dl.acm.org/citation.cfm?id=2886460
108. *Braun, E., Amyot, D., Lethbridge, TC. (2015, October 12). Generating Software Documentation in Use Case Maps from Filtered Execution Traces. In *17th International System Design Languages Forum* (p. 177-192) Springer. doi:10.1007/978-3-319-24912-4_13
Winner of best paper award
107. *Abdelzad, V., Amyot, D., Lethbridge, TC. (2015, October 12). Adding a Textual Syntax to an Existing Graphical Modeling Language: Experience Report with GRL. In *17th International System Design Languages Forum* (p. 159-174) Springer. doi:10.1007/978-3-319-24912-4_12

106. Badreddin, O, Sturm, A, Hamou-Lhadj, A., Lethbridge T.C., Dixon, W., Simmons, R. (2015, September 29). The Effects of Education on Student Perceptions of Modeling in Software Engineering. In *HuFamo Workshop of Models 2015* (p. 39-46) CEUR. doi:<http://ceur-ws.org/Vol-1522/Badreddin2015HuFaMo.pdf>
105. *Aljamaan, H., Lethbridge TC., *Garzon, M. (2015, September 28). UmpleRun: a Dynamic Analysis Tool for Textually Modeled State Machines using Umple. In *EXE 2015 Workshop at Models 2015* (p. 16-20) CEUR. doi:<http://ceur-ws.org/Vol-1560/paper3.pdf>
104. *Abdelzad, V., Amyot, D., Alwidian, S., Lethbridge, TC. (2015, August 15). A Textual Syntax with Tool Support for the Goal-oriented Requirement Language. In *International iStar Workshop* (p. 61-66) CEUR. doi:<http://ceur-ws.org/Vol-1402/paper6.pdf>
103. *Garzon, M, *Aljamaan, H, Lethbridge, TC. (2015, June 15). Umple: A Framework for Model Driven Development of Object-Oriented Systems. In *Software Analysis, Evolution and Reengineering (SANER), 2015 IEEE 22nd International Conference on* (p. 494-498) IEEE. doi:10.1109/SANER.2015.7081863
102. *Abdelzad, V, *Aljamaan, H, *Adesina, O, *Garzon, M Lethbridge, TC. (2014, June 15). A Model-Driven Solution for Financial Data Representation Expressed in FIXML. In *TTC 2014* (p. 65) CEUR. doi:<http://ceur-ws.org/Vol-1305/paper15.pdf>
101. *Badreddin, O, *Forward, A, Lethbridge, TC. (2013, June 15). Improving Code Generation for Associations: Enforcing Multiplicity Constraints and Ensuring Referential Integrity. In *Software Engineering Research, Management and Applications* (p. 129-149) Springer International Publishing. doi:10.1007/978-3-319-00948-3_9
100. *Badreddin, O, Lethbridge, TC, *Forward, A. (2014, January 15). A Novel Approach to Versioning and Merging Model and Code Uniformly. In *MODELSWARD* (p. 254-263) INSTICC. doi:<https://ieeexplore.ieee.org/abstract/document/7018472>
99. Lethbridge, TC. (2014, April 23). Teaching modeling using Umple: Principles for the development of an effective tool. In *Software Engineering Education and Training (CSE&T), 2014 IEEE 27th Conference on* (p. 23-28) IEEE. doi:10.1109/CSEET.2014.6816777
98. *Badreddin, O, Sturm, A, Lethbridge, TC. (2014, June 15). Requirement traceability: A model-based approach. In *Model-Driven Requirements Engineering Workshop (MoDRE), 2014 IEEE 4th International* (p. 87-91) IEEE. doi:10.1109/MoDRE.2014.6890829
97. *Badreddin, O, *Forward, A, Lethbridge, TC. (2014, June 15). A Test-Driven Approach for Developing Software Languages. In *MODELSWARD* (p. 225-234) INSTICC. doi:<https://ieeexplore.ieee.org/abstract/document/7018469>
96. *Aljamaan, H, Lethbridge, TC, *Badreddin, O, *Guest, G, *Forward, A. (2014, June 15). Specifying Trace Directives for UML Attributes and State Machines. In *MODELSWARD* (p. 79-86). doi:<https://ieeexplore.ieee.org/abstract/document/7018450>
95. *Badreddin, O, Lethbridge, TC, *Forward, A, Elaasar, M, *Aljamaan, H, *Garzón, M. (2014, June 15). Enhanced Code Generation from UML Composite State Machines. In *MODELSWARD* (p. 235-245) INSTICC. doi:<https://ieeexplore.ieee.org/abstract/document/7018470>
94. Lethbridge, Timothy C. (2014, October 1). Umple: An Open-Source Tool for Easy-To-Use Modeling, Analysis, and Code Generation. In *Models 2014 Demonstrations Track* (p. 5) CEUR. doi:<http://ceur-ws.org/Vol-1255/paper6.pdf>
93. *Garzon, M, Lethbridge, TC, *Aljamaan, H, *Badreddin, O. (2014, November 15). Reverse Engineering of Object-Oriented Code into Umple using an Incremental and Rule-Based Approach. In *Proceedings of 24th Annual International Conference on Computer Science and Software Engineering (CASCON)* (p. 91-105) IBM Corp and ACM. doi:<https://dl.acm.org/citation.cfm?id=2735534>
92. *Badreddin, O, Lethbridge, TC, Forward, A. (2014, June 15). Investigation and Evaluation of UML Action Languages. In *MODELSWARD* (p. 264-273) INSTICC. doi:<https://ieeexplore.ieee.org/abstract/document/7018473>
91. *Badreddin, O, Lethbridge, TC, Elassar, M. (2013, June 15). Modeling Practices in Open Source Software. In *International Conference on Open Source Systems* (p. 127-139) Springer Berlin Heidelberg. doi:10.1007/978-3-642-38928-3_9
90. *Badreddin, O, Lethbridge, TC. (2013, June 15). Model oriented programming: bridging the code-model divide. In *Proceedings of the 5th International Workshop on Modeling in Software Engineering* (p. 69-75). doi:<https://dl.acm.org/citation.cfm?id=2662754>

89. *Badreddin, O, *Forward, A, Lethbridge, TC. (2013, June 15). Exploring a Model-Oriented and Executable Syntax for UML Attributes. In *Software Engineering Research, Management and Applications* (p. 33-53) Springer International Publishing. doi:10.1007/978-3-319-00948-3_3
88. Akayama, S, Demuth, B, Lethbridge, TC, Scholz, M, Stevens, P, Stikkolorum, DR. (2013, June 15). Tool Use in Software Modelling Education. In *EduSymp@ MoDELS CEUR*. doi:http://ceur-ws.org/Vol-1134/paper6.pdf
87. Lethbridge, Timothy C. (2013, June 15). Key Properties for Comparing Modeling Languages and Tools: Usability, Completeness and Scalability. In *Comparing Modeling Approaches CEUR*. doi:http://ceur-ws.org/Vol-1076/paper3.pdf
86. *Garzon, M, Lethbridge, TC. (2012, June 15). Exploring how to Develop Transformations and Tools for Automated Umplification. In *Reverse Engineering (WCRE), 2012 19th Working Conference On* (p. 491-494). doi:10.1109/WCRE.2012.58
85. Mussbacher, G, Alam, O, Alhaj, M, Ali, S, Amálio, N, Barn, B, Braek, R, Clark, T, Combemale, B, Cysneiros, LM, Lethbridge, TC. (2012, June 15). Assessing composition in modeling approaches. In *Proceedings of the CMA 2012 Workshop*. doi:10.1145/2459031.2459032
84. Lethbridge, TC. (2012, June 15). A Model of bCMS Using the Umple Model-Oriented Programming Approach. In *Comparing Modeling Approaches*. doi:http://www.cs.colostate.edu/remodd/v1/sites/default/files/UmpleSubmissionForComparingModelingApproaches-Lethbridge.pdf
83. *Aljamaan, H, Lethbridge, TC. (2012, June 15). Towards Tracing at the Model Level. In *Reverse Engineering (WCRE), 2012 19th Working Conference on* (p. 495-498). doi:10.1109/WCRE.2012.59
82. *Badreddin, O, *Forward, A, Lethbridge, TC. (2012, June 15). Model oriented programming: an empirical study of comprehension. In *Proceedings of the 2012 Conference of the Center for Advanced Studies on Collaborative Research* (p. 73-86). doi:https://dl.acm.org/citation.cfm?id=2399784
81. *Badreddin, O, Lethbridge, TC. (2012, June 15). Combining experiments and grounded theory to evaluate a research prototype: Lessons from the umple model-oriented programming technology. In *Proceedings of the First International Workshop on User Evaluation for Software Engineering Researchers* (p. 1-4). doi:10.1109/USER.2012.6226575
80. *Fatolahi, A., and Somé, S. and Lethbridge, TC. (2011, June 15). Towards Reusability in Web Modeling Using QVT Relations. In *Webist*.
79. Lethbridge, TC, Mussbacher, G, *Forward, A, *Badreddin, O. (2011, June 15). Teaching UML using umple: Applying model-oriented programming in the classroom. In *Software Engineering Education and Training (CSEE&T), 2011 24th IEEE-CS Conference on* (p. 421-428). doi:10.1109/CSEET.2011.5876118
78. *Fatolahi, A, Somé, SS, Lethbridge, TC. (2010, June 15). Automated Generation of Use Case Descriptions from Problem Frames. In *Software Engineering Research, Management and Applications (SERA), 2010 Eighth ACIS International Conference on* (p. 223-230). doi:10.1109/SERA.2010.36
77. Lethbridge, TC, *Forward, A, *Badreddin, O. (2010, June 15). Umplification: Refactoring to incrementally add abstraction to a program. In *Reverse Engineering (WCRE), 2010 17th Working Conference on* (p. 220-224). doi:10.1109/WCRE.2010.32
76. *Forward, A, *Badreddin, O, Lethbridge, TC. (2010, June 15). Umple: Towards combining model driven with prototype driven system development. In *Rapid System Prototyping (RSP), 2010 21st IEEE International Symposium on* (p. 1-7). doi:10.1109/RSP.2010.5656338
75. *Forward, A, *Badreddin, O, Lethbridge, TC. (2010, June 15). Perceptions of software modeling: a survey of software practitioners. In *5th workshop from code centric to model centric: evaluating the effectiveness of MDD (C2M: EEMDD)*. doi:https://www.researchgate.net/profile/Andrew_Forward/publication/236953349_Perceptions_of_software_modeling_a_survey_of_software_practitioners/links/0046352978fcc74cf4000000/Perceptions-of-software-modeling-a-survey-of-software-practitioners.pdf
74. *Fatolahi, A, Somé, S, Lethbridge, TC. (2010, June 15). Designing a Map of Mappings: Visualization of QVT Relations using Basic Petri-Nets. In *2nd International Workshop on Future Trends of Model-Driven Development (FTMDD 2010)* (p. 33-45) Springer.

73. *Forward, A, Lethbridge, TC, *Brestovansky, D. (2009, June 15). Improving program comprehension by enhancing program constructs: An analysis of the Umple language. In *ICPC* (p. 311-312). doi:10.1109/ICPC.2009.5090073
72. *Fatolahi, A., and Somé, S. and Lethbridge, T.C. (2008, June 15). A Model-Driven Approach for the Semi-Automated Generation of Web-based Applications from Requirements. In *SEKE 2008: Conference on Software Engineering and Knowledge Engineering* (p. 619-624) Knowledge Systems Institute. doi:https://ecommons.luc.edu/cgi/viewcontent.cgi?referer=&httpsredir=1&article=1036&context=cs_facpubs#page=648
71. *Forward, A, Lethbridge, TC. (2008, June 15). Problems and opportunities for model-centric versus code-centric software development: a survey of software professionals. In *Proceedings of the 2008 international workshop on Models in software engineering* (p. 27-32). doi:10.1145/1370731.1370738
70. *Forward, A, Lethbridge, TC. (2008, June 15). A taxonomy of software types to facilitate search and evidence-based software engineering. In *Proceedings of the 2008 conference of the center for advanced studies on collaborative research: meeting of minds* (p. 179-191). doi:10.1145/1463788.1463807
69. Fatolahi, Ali, Somé, Stéphane S, Lethbridge, Timothy C. (2008, June 15). Towards a semi-automated model-driven method for the generation of web-based applications from use cases. In *4th Model Driven Web Engineering Workshop* (p. 31). doi:http://ceur-ws.org/Vol-389/paper03.pdf
68. Diaz-Herrera, Jorge, LeBlanc Jr, Richard, Lethbridge, Timothy. (2007, June 15). Improving software practice through education: Challenges and future trends. In *Future of Software Engineering (FOSE 2007), International Conference on Software Engineering* (p. 12-28) IEEE. doi:10.1109/FOSE.2007.13
67. Farah, Hanna, Lethbridge, Timothy C. (2007, June 15). Temporal exploration of software models: A tool feature to enhance software understanding. In *Reverse Engineering, 2007. WCRE 2007. 14th Working Conference on* (p. 41-49). doi:10.1109/WCRE.2007.49
66. Nojournian, Mehrdad, Lethbridge, Timothy C. (2007, June 15). Extracting document structure to facilitate a knowledge base creation for the UML superstructure specification. In *Information Technology, 2007. ITNG'07. Fourth International Conference on* (p. 393-400). doi:10.1109/ITNG.2007.93
65. Forward, Andrew, Lethbridge, Timothy, Deugo, Dwight. (2007, June 15). CodeSnippets Plug-in to Eclipse: Introducing Web 2.0 Tagging to Improve Software Developer Recall. In *Software Engineering Research, Management & Applications, 2007. SERA 2007. 5th ACIS International Conference on* (p. 451-460). doi:10.1109/SERA.2007.62
64. Fatolahi, A. and Somé, S.S, and Lethbridge, T.C. (2007, June 15). Enterprise Architecture using the Zachman Framework: A Model Driven Approach. In *Information Resources Management Association International Conference*. doi:http://www.irma-international.org/proceeding-paper/enterprise-architecture-using-zachman-framework/33023
63. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy. (2006, June 15). Summarizing the content of large traces to facilitate the understanding of the behaviour of a software system. In *Program Comprehension, 2006. ICPC 2006. 14th IEEE International Conference on* (p. 181-190). doi:10.1109/ICPC.2006.45
62. Nojournian, Mehrdad, Lethbridge, Timothy C. (2006, June 15). A new approach for the trust calculation in social networks. In *E-Business and Telecommunication Networks* (p. 257-264) Springer Berlin Heidelberg. doi:10.1007/978-3-540-70760-8_6
61. Murray, A., Lethbridge, T.C. (2005, June 15). Cognitive Patterns for Program Comprehension: Temporal Details. In *Pattern Languages of Program Design (PLoP)*. doi:http://hillside.net/plop/2005/proceedings/PLoP2005_amurray0_2.pdf
60. Hamou-Lhadj, Abdelwahab, Braun, Edna, Amyot, Daniel, Lethbridge, Timothy. (2005, June 15). Recovering behavioral design models from execution traces. In *Software Maintenance and Reengineering, 2005. CSMR 2005. Ninth European Conference on* (p. 112-121). doi:10.1109/CSMR.2005.46
59. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C. (2005, June 15). Measuring various properties of execution traces to help build better trace analysis tools. In *Engineering of Complex Computer Systems, 2005. ICECCS 2005. Proceedings. 10th IEEE International Conference on* (p. 559-568). doi:10.1109/ICECCS.2005.57
58. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C, Fu, Lianjiang. (2005, June 15). SEAT: A usable trace analysis tool. In *Program Comprehension, 2005. IWPC 2005. Proceedings. 13th International Workshop on* (p. 157-160). doi:10.1109/WPC.2005.30

57. Atlee, Joanne M, LeBlanc Jr, Richard J, Lethbridge, Timothy C, Sobel, Ann, Thompson, J Barrie. (2005, June 15). Software engineering 2004: ACM/IEEE-CS guidelines for undergraduate programs in software engineering. In *Proceedings of the 27th international conference on Software engineering* (p. 623-624). doi:10.1145/1062455.1062571
56. Murray, Adam, Lethbridge, Timothy C. (2005, June 15). On generating cognitive patterns of software comprehension. In *Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research* (p. 200-211). doi:https://dl.acm.org/citation.cfm?id=1105649&coll=GUIDE&dl=ACM
55. Murray, Adam, Lethbridge, Timothy C. (2005, June 15). Presenting micro-theories of program comprehension in pattern form. In *Program Comprehension, 2005. IWPC 2005. Proceedings. 13th International Workshop on* (p. 45-54). doi:10.1109/WPC.2005.28
54. Shirabad, Jelber Sayyad, Lethbridge, Timothy C, Matwin, Stan. (2004, June 15). Mining the software change repository of a legacy telephony system. In *Proceedings 1st International Workshop on Mining Software Repositories (MSR'04)* (p. 53-57) IEE Press. doi:10.1049/ic:20040476
53. Shirabad, Jelber Sayyad, Matwin, Stan, Lethbridge, Timothy C. (2004, June 15). Predictive software models. In *Software Technology and Engineering Practice, 2004. STEP 2004. The 12th International Workshop on* (p. 10-pp). doi:10.1109/STEP.2004.14
52. Lethbridge, Timothy C. (2004, June 15). Value assessment by potential tool adopters: towards a model that considers costs, benefits and risks of adoption. In *4th International Workshop on Adoption-Centric Software Engineering (ACSE'04)* (p. 46-50). doi:10.1049/ic:20040248
51. Murray, Adam, Lethbridge, Timothy C. (2004, June 15). A brief summary of cognitive patterns for program comprehension. In *2013 20th Working Conference on Reverse Engineering (WCRE)* (p. 304-305). doi:10.1109/WCRE.2004.5
50. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C. (2004, June 15). A metamodel for dynamic information generated from object-oriented systems. In *First International Workshop on Meta-Models and Schemas for Reverse Engineering, ateM* (p. 59-69) Elsevier. doi:10.1016/j.entcs.2004.01.004
49. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C. (2004, June 15). A survey of trace exploration tools and techniques. In *Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research* (p. 42-55). doi:https://dl.acm.org/citation.cfm?id=1034918&coll=GUIDE&dl=ACM
48. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C. (2004, June 15). Reasoning about the Concept of Utilities. In *1st ECOOP Workshop on Practical Problems of Programming in the Large* (p. 10-22) Springer. doi:https://users.encs.concordia.ca/~abdelw/papers/ECOOP04-Utilities.pdf
47. Lethbridge, Timothy C, Tichelaar, Sander, Plödereder, Erhard. (2004, June 15). The dagstuhl middle metamodel: A schema for reverse engineering. In *International Workshop on Meta-Models and Schemas for Reverse Engineering (ateM 2003)* (p. 7-18) Elsevier. doi:10.1016/j.entcs.2004.01.008
46. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C, Fu, Lianjiang. (2004, June 15). Challenges and requirements for an effective trace exploration tool. In *Program Comprehension, 2004. Proceedings. 12th IEEE International Workshop on* (p. 70-78). doi:10.1109/WPC.2004.1311049
45. Williams, J.C. and Bair, B. and Lethbridge, T.C. and Börstler, J, and Surandran, K. (2003, June 15). Client Sponsored Projects in Software Engineering Courses. In *SIGCSE* (p. 401-402) ACM. doi:10.1145/792548.611893
44. Shirabad, Jelber Sayyad, Lethbridge, Timothy C, Matwin, Stan. (2003, June 15). Mining the maintenance history of a legacy software system. In *Software Maintenance, 2003. ICSM 2003. Proceedings. International Conference on* (p. 95-104). doi:10.1109/ICSM.2003.1235410
43. Hayes, Jane Huffman, Lethbridge, Timothy C, Port, Daniel. (2003, June 15). Evaluating individual contribution toward group software engineering projects. In *Proceedings of the 25th International Conference on Software Engineering* (p. 622-627). doi:10.1109/ICSE.2003.1201246
42. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C. (2003, June 15). An efficient algorithm for detecting patterns in traces of procedure calls. In *ICSE WODA 2003 ICSE Workshop on Dynamic Analysis* (p. 33-36). doi:https://users.encs.concordia.ca/~abdelw/papers/WODA03-HamouLhadjPatternDetection.pdf
41. Shirabad, Jelber Sayyad, Lethbridge, Timothy C, Matwin, Stan. (2003, June 15). Applying data mining to software maintenance records. In *Proceedings of the 2003 conference of the Centre for Advanced Studies*

- on Collaborative research (p. 253-265).
doi:<https://dl.acm.org/citation.cfm?id=961361&coll=GUIDE&dl=ACM>
40. Murray, Adam, Michaud, Jeff, Lethbridge, Timothy C. (2003, June 15). An Authoring Framework for Live Documents: Collaborative Writing with Infinite Persistent Annotated Change Tracking (ImpACT). In *3rd International Workshop on Adoption-Centric Software Engineering* (p. 55-58). doi:https://www.researchgate.net/profile/S_Rifkin/publication/237135724_Two_good_reasons_why_new_software_processes_are_not_adopted/links/550b42a20cf2855640970494/Two-good-reasons-why-new-software-processes-are-not-adopted.pdf#page=63
 39. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C. (2003, June 15). Techniques for reducing the complexity of object-oriented execution traces. In *2nd IEEE international workshop on visualizing software for understanding and analysis* (p. 35-40). doi:<https://users.encs.concordia.ca/home/a/abdelw/papers/VISSOFT03-OOComplexity.pdf>
 38. Forward, Andrew, Lethbridge, Timothy C. (2002, June 15). The relevance of software documentation, tools and technologies: a survey. In *Proceedings of the 2002 ACM symposium on Document engineering* (p. 26-33). doi:10.1145/585058.585065
 37. Hamou-Lhadj, Abdelwahab, Lethbridge, Timothy C. (2002, June 15). Compression techniques to simplify the analysis of large execution traces. In *Program Comprehension, 2002. Proceedings. 10th International Workshop on* (p. 159-168). doi:10.1109/WPC.2002.1021337
 36. Bourque, Pierre, Robert, François, Lavoie, Jean-Marc, Lee, Ansik, Trudel, Sylvie, Lethbridge, Timothy C. (2002, June 15). Guide to the software engineering body of knowledge (SEWBOK) and the software engineering education knowledge (SEEK)-a preliminary mapping. In *Software Technology and Engineering Practice, 2002. STEP 2002. Proceedings. 10th International Workshop on* (p. 8-23).
 35. Somé, Stéphane S, Lethbridge, Timothy C. (2002, June 15). Enhancing program comprehension with recovered state models. In *Program Comprehension, 2002. Proceedings. 10th International Workshop on* (p. 85-93). doi:10.1109/WPC.2002.1021325
 34. Bagert, Donald J, Barbacci, Mario, Budgen, David, Lethbridge, Timothy C, Suryan, Witold, van Vliet, Hans. (2002, June 15). Thoughts on Software Engineering Knowledge, and how to Organize it. In *Software Technology and Engineering Practice, 2002. STEP 2002. Proceedings. 10th International Workshop on* (p. 24-35). doi:10.1109/STEP.2002.1267596
 33. Liu, Huixiang, Lethbridge, Timothy C. (2001, June 15). Intelligent search techniques for large software systems. In *Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research* (p. 40-54). doi:<https://dl.acm.org/citation.cfm?id=782106&coll=GUIDE&dl=ACM>
 32. Shirabad, Jelber Sayyad, Lethbridge, Timothy C, Matwin, Stan. (2001, June 15). Supporting software maintenance by mining software update records. In *Software Maintenance, 2001. Proceedings. IEEE International Conference on* (p. 22-31). doi:10.1109/ICSM.2001.972708
 31. Zayour, Iyad, Lethbridge, Timothy C. (2001, June 15). Adoption of reverse engineering tools: a cognitive perspective and methodology. In *Program Comprehension, 2001. IWPC 2001. Proceedings. 9th International Workshop on* (p. 245-255). doi:10.1109/WPC.2001.921735
 30. Shirabad, Jelber Sayyad, Lethbridge, Timothy C, Matwin, Stan. (2000, June 15). Supporting maintenance of legacy software with data mining techniques. In *Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research* (p. 137-151). doi:<https://dl.acm.org/citation.cfm?id=782045>
 29. Lethbridge, Timothy C. (2000, June 15). Integrated Personal Work Management in TKSee Software Exploration Tool. In *2nd Int. Symp. on Constructing Software Engineering Tools (CoSET'2000)* (p. 31-38). doi:<https://bit.ly/33Y6ohk>
 28. Zayour, Iyad, Lethbridge, Timothy C. (2000, June 15). A cognitive and user centric based approach for reverse engineering tool design. In *Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research (CASCON)* (p. 16-30). doi:<https://dl.acm.org/citation.cfm?id=782050>
 27. Anquetil, Nicolas, Lethbridge, Timothy C. (1999, June 15). Experiments with clustering as a software remodularization method. In *Reverse Engineering, 1999. Proceedings. Sixth Working Conference on* (p. 235-255). doi:10.1109/WCRE.1999.806964
 26. Singer, J, Lethbridge, T.C. (1998, June 15). Just-in-Time-Comprehension vs. the Full-coverage Strategy. In *Workshop on Empirical Studies of Software (WESS)*. doi:<http://www.site.uottawa.ca/~tcl/papers/WESS/WESS98SingerLethbridge.pdf>

25. Anquetil, Nicolas, Lethbridge, Timothy. (1998, June 15). Extracting concepts from file names: a new file clustering criterion. In *Proceedings of the 20th international conference on Software engineering* (p. 84-93). doi:10.1109/ICSE.1998.671105
24. Anquetil, Nicolas, Lethbridge, Timothy. (1998, June 15). Assessing the relevance of identifier names in a legacy software system. In *Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative Research (Cascon)* (p. 213-222). doi:http://www.csi.uottawa.ca/~tcl/papers/Cascon/Cascon98Nicolas.pdf
23. Singer, Janice, Lethbridge, Timothy C, Vinson, Norman. (1998, June 15). Studying work practices to assist tool design in software engineering. In *Proceedings of International Workshop on Program Comprehension, Italy* (p. 173-179). doi:10.1109/WPC.1998.693348
22. Lethbridge, Timothy C. (1998, June 15). A survey of the relevance of computer science and software engineering education. In *Software Engineering Education, 1998. Proceedings., 11th Conference on* (p. 56-66). doi:10.1109/CSEE.1998.658300
21. Somé, Stéphane S, Lethbridge, Timothy C. (1998, June 15). Parsing minimization when extracting information from code in the presence of conditional compilation. In *Program Comprehension, 1998. IWPC'98. Proceedings., 6th International Workshop on* (p. 118-125). doi:10.1109/WPC.1998.693328
20. Lethbridge, TC, Probert, RL, Raymond, J, Gibbons, D, Ionescu, D, Orozco-Barbosa, L, Szpakowicz, S. (1998, June 15). The University of Ottawa's Software Engineering Program: Curriculum Design Issues for a New Subdiscipline. In *Canadian Conference on Engineering Education, Halifax* (p. 551-560) Citeseer. doi:http://www.site.uottawa.ca/~tcl/papers/ccece/C2E298Lethbridge.pdf
19. Lethbridge, Timothy C, Ionescu, Dan, Mili, Ali, Gibbons, David. (1997, June 15). An undergraduate option in software engineering: analysis and rationale. In *Software Engineering Education & Training. Tenth Conference on* (p. 120-129). doi:10.1109/SEDC.1997.592447
18. Sayyad-Shirabad, Jelber, Lethbridge, Timothy C, Lyon, Steve. (1997, June 15). A little knowledge can go a long way towards program understanding. In *Program Comprehension, 1997. IWPC'97. Proceedings., Fifth International Workshop on* (p. 111-117). doi:10.1109/WPC.1997.601275
17. Lethbridge, Timothy C, Singer, Janice. (1997, June 15). Understanding software maintenance tools: Some empirical research. In *Proceedings of the 1997 IEEE Workshop on Empirical Studies of Software Maintenance (WESS 97)* (p. 157-162). doi:http://www.site.uottawa.ca/~tcl/papers/WESS/WESS97Lethbridge.html
16. Singer, Janice, Lethbridge, Timothy, Vinson, Norman, Anquetil, Nicolas. (1997, June 15). An examination of software engineering work practices. In *CASCON* (p. 209-223). doi:10.1145/1925805.1925815
Reprinted in 2010 in *CASCON First Decade High Impact Papers Pages 174-188*
15. Anquetil, Nicolas, Lethbridge, Timothy. (1997, June 15). File clustering using naming conventions for legacy systems. In *Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research (CASCON)* (p. 184-195). doi:http://portal.acm.org/citation.cfm?id=782012
14. Singer, Janice, Lethbridge, Timothy C. (1996, June 15). Methods for studying maintenance activities. In *1st International Workshop on Empirical Studies of Software Maintenance* (p. 105-110) Fraunhofer Institute for Experimental Software Engineering. doi:http://www.site.uottawa.ca/~tcl/papers/WESS/WESS96Singer.html
13. Lethbridge, Timothy C, Singer, Janice. (1996, June 15). Strategies for studying maintenance. In *Workshop on Empirical Studies of Software Maintenance* (p. 79-84) Fraunhofer Institute for Experimental Software Engineering. doi:http://www.site.uottawa.ca/~tcl/papers/WESS/WESS96Lethbridge.html
12. Skuce, Doug, Lethbridge, T. (1994, June 15). CODE4: A multifunctional knowledge management system. In *8th Knowledge Acquisition for Knowledge-Based Systems Workshop* (p. 12.1 - 12.21). doi:http://www.site.uottawa.ca/~tcl/papers/km/CODE4AMultifunctional.html
11. Bowker, L; Lethbridge, TC. (1994, June 15). CODE4: applications for managing classification schemes. In *5th ASIS SIC/CR Classification Research Conference* (p. 17-32). doi:https://www.researchgate.net/profile/Timothy_Lethbridge/publication/268366614_CODE4_Applications_for_Managing_Classification_Schemes/links/54bed2120cf28ad7e7195c1b/CODE4-Applications-for-Managing-Classification-Schemes.pdf

10. Lethbridge, Timothy C, Skuce, Doug. (1994, June 15). Knowledge base metrics and informality: User studies with code4. In *Proc. 8th Knowledge Acquisition for Knowledge-Based Systems Workshop* (p. 10.1 - 10.19). doi:<http://www.csi.uottawa.ca/~tcl/papers/km/KnowledgeBaseMetrics.pdf>
9. Bowker, L., Lethbridge, T.C. (1994, June 15). Terminology and Faceted Classification: Applications Using CODE4. In *Advances in Knowledge Organization (Third ISKO Conference)* (p. 200-207).
8. Bradshaw, Jeffrey M, Holm, Peter D, Boose, John H, Skuce, Douglas, Lethbridge, Timothy C. (1992, June 15). Sharable ontologies as a basis for communication and collaboration in conceptual modeling. In *7th Knowledge Acquisition for Knowledge-based Systems Workshop* (p. 3.1-3.25). doi:<http://www.jeffreybradshaw.net/publications/KAW-92-Shared%20ont.pdf>
7. Lethbridge, Timothy C, Skuce, Doug. (1992, June 15). Informality in knowledge exchange. In *AAAI-92 Workshop on Knowledge Representation Aspects of Knowledge Acquisition* (p. 93-99). doi:<https://pdfs.semanticscholar.org/79e2/f6fa26508800d837336dd3860b25e63ef499.pdf>
6. Bradshaw, Jeffrey M, Boose, John H, Shema, David B, Skuce, Douglas, Lethbridge, Timothy C. (1992, June 15). Steps toward sharable ontologies for design rationale. In *AAAI-92 Design Rationale Capture and Use Workshop* (p. 29-38). doi:<http://www.site.uottawa.ca/~tcl/papers/km/StepsToward.pdf>
5. Lethbridge, Timothy C, Skuce, Doug. (1992, June 15). Integrating techniques for conceptual modeling. In *Proceedings of the Seventh Banff Annual Knowledge Acquisition for Knowledge-Based Systems Workshop* (p. 15.1-15.20). doi:<http://www.site.uottawa.ca/~tcl/papers/km/IntegratingTechniques.pdf>
4. Lethbridge, Timothy C, Skuce, Doug. (1992, June 15). Beyond hypertext: knowledge management for technical documentation. In *Proceedings of the 10th annual international conference on Systems documentation* (p. 313-322). doi:10.1145/147001.147056
3. Lethbridge, Timothy C. (1991, June 15). Creative knowledge acquisition: An analysis. In *Proceedings of the 6th 1991 Banff Knowledge Acquisition for Knowledge-Based Systems Workshop* (p. 12.1-12.20). doi:<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.194.9129&rep=rep1&type=pdf>
2. Lethbridge, Timothy C. (1991, June 15). A model for informality in knowledge representation and acquisition (an extended abstract). In *DARPA Workshop on Informal Computing* (p. 175-177). doi:<http://www.site.uottawa.ca/~tcl/papers/km/AModelForInformality.html>
1. Lethbridge, TC, Ware, Colin. (1987, June 15). Animation Using Behaviour Functions. In *Workshop on Visual languages*.

Reports

4. *Fatolahi, A, Somé, SS, Lethbridge, TC. (2010, June 15). *Automated Generation of Abstract Web Models using QVT Relations*. doi:<https://www.site.uottawa.ca/eng/school/publications/techrep/2010/TR-2010-06.pdf>
3. *Anquetil, N, Lethbridge, TC. (1998, June 15). *Design Quality of Subsystems Extracted from File Names*. doi:<http://www.site.uottawa.ca/~tcl/papers/WCRE/WCRE98.pdf>
2. Lethbridge, TC, *Anquetil, N. (1997, June 15). *Architecture of a source code exploration tool: A software engineering case study*. doi:<http://www.site.uottawa.ca/~tcl/papers/Cascon/TR-97-07.pdf>
1. Nash, J, Lethbridge, TC. (1997, June 15). *A synchronous teamwork approach to software development*. doi:<http://www.site.uottawa.ca/~tcl/papers/nash/NashOriginal.pdf>

PRESENTATIONS:

4. Keynote Address. (2019, June). "Model-Based Systems Engineering: Some Messages for Digital Transformation in Government". Local Digital Transformation in Government Conference, ISACA and Association of Enterprise Architects, Ottawa.
Research Type: Scientific Research
3. Keynote Address. (2018, February). "Teaching Effective UML Modeling by Combining it with Programming". National 6th Kinneret Conference on Software Engineering Education, Kinneret, Israel. Retrieved from <http://www.site.uottawa.ca/~tcl/presentations/KinneretUmpleKeynote.pptx>
Research Type: Scientific Research

2. Lecture. (2018, February). "Practical Model-Based Programming: When Agile and Modeling Meet". National ITLAM, 2-day mini-course, Herzlia, Israel. Retrieved from <http://www.site.uottawa.ca/~tcl/presentations/AgileAndModelingMeetWithUmple.pptx>
Research Type: Scientific Research
1. Lecture. (2017, June). "The Benefits of Text-Diagram Duality in Modeling". Local Modeling Day, Ben-Gurion University of the Negev, Beer Sheva, Israel.
Research Type: Scientific Research

INTELLECTUAL PROPERTIES:

Patents

1. (2007, June 15). Systems, method and computer program products for tracking and viewing changes to information stored in a data structure.

OTHER CONTRIBUTIONS:

Online Resources

1. (2008, July 1). *Umple Online*. doi:<http://try.umple.org>

Manuals

1. Lethbridge, T.C. et al. (2011, January). Umple User Manual. pp. . doi:<http://manual.umple.org>

Dissertations

2. (1994, June 15). *Practical techniques for organizing and measuring knowledge*. University of Ottawa, Ontario, Canada. doi:<http://www.csi.uottawa.ca/~tcl/thesis.pdf>
1. (1987, June 15). *Perceived animate motion by simple deterministic rules of inter-object behaviour*. University of New Brunswick. doi:<http://goo.gl/ColjtK>

Software

1. Umple. (n.d.). University of Ottawa. Retrieved from <http://www.umple.org>
Research Type: Scientific Research
A compiler that combines UML class diagrams, state diagrams, traits, mixins and other techniques into Java, PHP, C++ and other languages. Includes an online website, a command-line tool, plugins for IDEs and extensive manual. Used widely for education in universities around the world

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